This brochure documents a proud partnership.

The roster of National Institutes of Health (NIH) scientists and grantees who have received the Nobel Prize is testimony to NIH's vision and sound judgment as pioneers on the biomedical research front.

The pages which follow paint—in bold, brief verbal colors—portraits of scientific and humanitarian genius. We in the Department of Health and Human Services are proud of our sponsorship and our fraternal association with those men and women who have unlocked and released secrets of progress for all mankind.

We honor and salute them. And hope that we, through NIH, will be able to add to their number in the years ahead.

Margaret M. Heckler
Secretary
Department of Health and Human Services

NIH SUPPORT OF
EXCELLENCE IN
BIOMEDICAL
RESEARCH

NOBEL PRIZE LAUREATES

U.S. DEPARTMENT OF HEALTH
AND HUMAN SERVICES
Public Health Service
National Institutes of Health

National Institute of
General Medical Sciences
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Preface

The Nobel Prizes are generally recognized as among the world's highest honors in science. They are awarded each year in Stockholm by the Nobel Foundation, as legatee and administrator of the trust established by the Swedish inventor Alfred Nobel following his death in 1896.

In his famous will, Nobel provided that the major part of his estate, amounting then to approximately $9,200,000, should be invested and the income "annually distributed in the form of prizes to those who, during the preceding year, shall have conferred the greatest benefit on mankind." Nobel further stipulated that the prizes should be distributed as follows: "one part to the person who shall have made the most important discovery or invention within the field of physics; one part to the person who shall have made the most important chemical discovery or improvement; one part to the person who shall have made the most important discovery within the domain of physiology or medicine; one part to the person who shall have produced in the field of literature the most outstanding work of an idealistic tendency; and one part to the person who shall have done the most or the best work for fraternity between nations, for the abolition or reduction of standing armies and for the holding and promotion of peace congresses." Still another prize category, economics, was created by the Foundation in 1969.

The Nobel Prizes in physics, chemistry, physiology or medicine, literature, and economics are formally presented to the laureates at a ceremony in the Stockholm Concert Hall on December 10, the anniversary of Alfred Nobel's death. The peace prize is presented on the same day at the University of Oslo, Norway.

The first awards were made in 1901, and they have been presented annually thereafter with the exception of 3 years during World War II, 1940-42. Over the years, 171 prizes have been won by United States citizens, of which 48 were in physics, 27 in chemistry, 57 in physiology or medicine, 9 in literature, 17 in the peace category, and 13 in economics.

Among these Nobel laureates are three current and one former National Institutes of Health scientists: Drs. Marshall W. Nirenberg of the National Heart, Lung, and Blood Institute; Julius Axelrod of the National Institute of Mental Health; D. Carleton Gajdusek of the National Institute of Neurological and Communicative Disorders and Stroke; and Christian B. Anfinsen, formerly of the National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases.

Since it was established in 1938, NIH has supported the work of another 81 Nobel Prize winners. Of these, 60 received grant support for research conducted prior to their selection as laureates and were thus directly assisted by NIH in making the discoveries for which they are now renowned.

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Key to NIH Awarding Units

NCI	National Cancer Institute
NHLBI	National Heart, Lung, and Blood Institute
NIADDK	National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases
NINCDS	National Institute of Neurological and Communicative Disorders and Stroke
NIAID	National Institute of Allergy and Infectious Diseases
NIGMS	National Institute of General Medical Sciences
NICHD	National Institute of Child Health and Human Development
NEI	National Eye Institute
NIA	National Institute on Aging
DRR	Division of Research Resources
NLM	National Library of Medicine
DRG	Division of Research Grants
NIMH	National Institute of Mental Health (Separated from NIH in 1973 to become part of the new Alcohol, Drug Abuse, and Mental Health Administration)

	Laureate	Nobel Prize Year	Field	Work Cited	NIH Support Awarding Unit	Work Supported
	R. Bruce Merrifield (U.S.A.)	1984	Chemistry	Development of solid-phase peptide synthesis.	NIADDK	Synthetic analogs of glucagon for studies of diabetes; solid-phase synthesis of peptides and proteins.
	Henry Taube (U.S.A.)	1983	Chemistry	Studies of electron transfer reactions, particularly those involving metal complexes.	NIGMS	Research on organic groups in redox reactions of metal ions; biochemically significant molecules as ligands.
	Sune Bergström (Sweden) (Shared with J.R. Vane, United Kingdom, and B. Samuelsson, Sweden)	1982	Physiology or Medicine	Work on prostaglandins and related biologically active substances.	NHLBI NICHD NLM	Metabolic studies of steroids and bile acids; pharmacology terminology for medical subject headings; development of thesaurus for human reproduction.
	John R. Vane (United Kingdom) (Shared with S. Bergström and B. Samuelsson, Sweden)	1982	Physiology or Medicine	Work on prostaglandins and related biologically active substances.	NIGMS DRG NIMH	Studies on the pharmacology of cytoplasmic particles; tryptamine receptors in the central nervous system.

	Laureate	Nobel Prize Year	Field	Work Cited	NIH Support Awarding Unit	Work Supported
	Aaron Klug (United Kingdom)	1982	Chemistry	Discovery of methods to determine the shape of molecules important to life.	NIAID	Molecular studies of the structure of viruses.
	Roald Hoffmann (U.S.A.) (Shared with K. Fukui, Japan)	1981	Chemistry	Theories concerning the course of chemical reactions.	NIGMS	Theoretical study of photochemistry, conformations, and reactivity.
	David H. Hubel (U.S.A.) (Shared with T.N. Wiesel, Sweden, and R.W. Sperry, U.S.A.)	1981	Physiology or Medicine	Discoveries concerning information processing in visual systems.	NINCDS NIGMS NEI DRR	Pharmacology studies; basic neurobiological research; microelectrode studies of vision; organization of the visual system.
	Torsten N. Wiesel (Sweden) (Shared with D.H. Hubel and R.W. Sperry, U.S.A.)	1981	Physiology or Medicine	Discoveries concerning information processing in visual systems.	NINCDS NEI DRR	Studies of development and function of visual systems; experimental myopia in primates; molecular and cellular mechanisms in vision; basic neurobiological research.

	Laureate	Nobel Prize Year	Field	Work Cited	NIH Support Awarding Unit	Work Supported
	Baruj Benacerraf (U.S.A.) (Shared with J. Dausset, France, and G.D. Snell, U.S.A.)	1980	Physiology or Medicine	Discovery of the immune response genes and the histocompatibility system.	NCI NIAID	Studies of the reticuloendothelial system; immune response; immunopathology; lymphocyte biology; experimental cancer immunology.
	Jean Dausset (France) (Shared with B. Benacerraf and G.D. Snell, U.S.A.)	1980	Physiology or Medicine	Discovery of the immune response genes and the histocompatibility system.	NCI NIAID	Studies of serologic techniques, surface leukocyte antigens, and skin grafts.
	George D. Snell (U.S.A.) (Shared with B. Benacerraf, U.S.A., and J. Dausset, France)	1980	Physiology or Medicine	Discovery of the immune response genes and the histocompatibility system.	NCI NIAID	Studies of tumor transplants; immunogenetics of tissue transplantation.
	Paul Berg (U.S.A.) (Shared with W. Gilbert, U.S.A., and F. Sanger, United Kingdom)	1980	Chemistry	Discoveries concerning the chemical basis of the genetic machinery in living organisms.	NCI NIGMS	Enzymatic studies of protein synthesis; mechanisms and regulation of gene expression; basic mechanisms in viral carcinogenesis.

	Laureate	Nobel Prize Year	Field	Work Cited	NIH Support Awarding Unit	Work Supported
	Walter Gilbert (U.S.A.) (Shared with P. Berg, U.S.A., and F. Sanger, United Kingdom)	1980	Chemistry	Discoveries concerning the chemical basis of the genetic machinery in living organisms.	NIADDK NIGMS	Studies on the rolling circle model for DNA replication; role of RNA in protein synthesis; interaction of proteins with DNA; construction of an insulin-producing bacterial strain.
	Herbert C. Brown (U.S.A.) (Shared with G. Wittig, Germany)	1979	Chemistry	Development and use of boron-containing compounds as important reagents in organic synthesis.	NIGMS	Studies of hydroboration for production of biologically important molecules.
	Daniel Nathans (U.S.A.) (Shared with W. Arber, Switzerland, and H.O. Smith, U.S.A.)	1978	Physiology or Medicine	Discovery of restriction enzymes and their application to molecular genetics.	NCI NIGMS	Studies in molecular biology of viral tumorigenesis; protein synthesis.
	Hamilton O. Smith (U.S.A.) (Shared with W. Arber, Switzerland, and D. Nathans, U.S.A.)	1978	Physiology or Medicine	Discovery of restriction enzymes and their application to molecular genetics.	NIAID NIGMS	Fellowship—genetics; studies on new mechanisms of prophage integration and recombination of DNA.

	Laureate	Nobel Prize Year	Field	Work Cited	NIH Support Awarding Unit	Work Supported
	Roger C.L. Guillemin (U.S.A.) (Shared with R.S. Yalow and A.V. Schally, U.S.A.)	1977	Physiology or Medicine	Discoveries concerning the peptide hormone production of the brain.	NIADDK NICHD DRR	Studies on the neurochemistry of the brain and the neurohumoral regulatory roles of the hypothalamus and pituitary; brain peptides affecting pituitary functions and diabetes; the neuroendocrinology of reproduction and growth.
	Andrew V. Schally (U.S.A.) (Shared with R.S. Yalow and R.C.L. Guillemin, U.S.A.)	1977	Physiology or Medicine	Discoveries concerning the peptide hormone production of the brain.	NIADDK NIGMS NICHD	Isolation and structural studies of hypothalamic peptides; neurochemistry of the diencephalon; isolation and studies of growth hormone releasing factor; antigonadotropic peptides in the pineal gland; studies and synthesis of reproductive hormones.
	Baruch S. Blumberg (U.S.A.) (Shared with D.C. Gajdusek, U.S.A.)	1976	Physiology or Medicine	Discoveries concerning new mechanisms for the origin and dissemination of infectious diseases.	NCI NHLBI	Studies on genetic biochemical traits in Africans; radio-immunoassay to detect Australia antigen; development of tests to detect hepatitis-associated antigen and thus the virus of serum hepatitis; clinical cancer research.
	D. Carleton Gajdusek (U.S.A.) (Shared with B.S. Blumberg, U.S.A.)	1976	Physiology or Medicine	Discoveries concerning new mechanisms for the origin and dissemination of infectious diseases.	Chief, Laboratory of Central Nervous System Studies, NINCDS	Discovery of new mechanisms for the manifestation and dissemination of infectious viral diseases (slow viruses, kuru).

	Laureate	Nobel Prize Year	Field	Work Cited	NIH Support Awarding Unit	Work Supported
	William N. Lipscomb (U.S.A.)	1976	Chemistry	Studies on the structure of boranes, illuminating problems of chemical bonding.	NIGMS DRG	Studies of molecular structures of natural products; problems in theoretical chemistry.
	David Baltimore (U.S.A.) (Shared with R. Dulbecco and H.M. Temin, U.S.A.)	1975	Physiology or Medicine	Discoveries concerning the interaction between tumor viruses and the genetic material of the cell.	NCI NIAID	Studies of viral DNA and viral RNA synthesis and translation; molecular analysis of oncogenic viruses.
	Renato Dulbecco (U.S.A.) (Shared with D. Baltimore and H.M. Temin, U.S.A.)	1975	Physiology or Medicine	Discoveries concerning the interaction between tumor viruses and the genetic material of the cell.	NCI NIAID	Studies of the function of viral and cellular genes; normal and neoplastic development of the mammary gland.
	Howard M. Temin (U.S.A.) (Shared with D. Baltimore and R. Dulbecco, U.S.A.)	1975	Physiology or Medicine	Discoveries concerning the interaction between tumor viruses and the genetic material of the cell.	NCI	Studies in viral oncology; the mechanism of carcinogenesis by Rous sarcoma virus.

	Laureate	Nobel Prize			NIH Support	
		Year	Field	Work Cited	Awarding Unit	Work Supported
	Albert Claude (Belgium) (Shared with C. de Duve, Belgium, and G.E. Palade, U.S.A.)	1974	Physiology or Medicine	Discoveries concerning the structural and functional organization of the cell.	NCI	Biochemical and morphological studies of normal and tumor cells.
	Christian de Duve (Belgium) (Shared with A. Claude, Belgium, and G.E. Palade, U.S.A.)	1974	Physiology or Medicine	Discoveries concerning the structural and functional organization of the cell.	NHLBI NIGMS NICHD NIA	Study of major organelles with emphasis on lysosomes and peroxisomes; mechanisms of cellular aging and degeneration; subcellular events in atherosclerosis.
	George E. Palade (U.S.A.) (Shared with A. Claude and C. de Duve, Belgium)	1974	Physiology or Medicine	Discoveries concerning the structural and functional organization of the cell.	NHLBI NIGMS	Studies on cellular membranes; structure and function of blood capillaries.
	Gerald M. Edelman (U.S.A.) (Shared with R.R. Porter, United Kingdom)	1972	Physiology or Medicine	Discoveries of the chemical structure of antibodies.	NHLBI NIADDK NIAID	Interaction and energy transfer in biological systems; structure and activity of antibody-related proteins; cell biology and chemistry of lymphocytes and their products; cell-cell adhesion in embryonic cells.

	Laureate	Nobel Prize			NIH Support	
		Year	Field	Work Cited	Awarding Unit	Work Supported
	Rodney R. Porter (United Kingdom) (Shared with G.M. Edelman, U.S.A.)	1972	Physiology or Medicine	Discoveries of the chemical structure of antibodies.	NIAID	Studies of the structural basis of antibody and antigen activity.
	Christian B. Anfinsen (U.S.A.) (Shared with S. Moore and W.H. Stein, U.S.A.)	1972	Chemistry	Contributions to the understanding of the relationship between the chemical structure and catalytic activity of the active site of the ribonuclease molecule.	Chief, Laboratory of Cellular Physiology, NHLBI; Chief, Laboratory of Chemical Biology, NIADDK	Studies of the sequential nature of protein biosynthesis and the mechanism by which proteins assume their three-dimensional conformation, leading to hypothesis that the structure of a protein is determined by the chemistry of its amino acid sequence.
	Stanford Moore (U.S.A.) (Shared with C.B. Anfinsen and W.H. Stein, U.S.A.)	1972	Chemistry	Contributions to the understanding of the relationship between the chemical structure and catalytic activity of the active site of the ribonuclease molecule.	NINCDS NIGMS	Biochemistry of nucleases; chemical structure and enzymatic activity of proteins; enzyme systems in the brain.
	William H. Stein (U.S.A.) (Shared with C.B. Anfinsen and S. Moore, U.S.A.)	1972	Chemistry	Contributions to the understanding of the relationship between the chemical structure and catalytic activity of the active site of the ribonuclease molecule.	NIGMS	Chemical structure and enzymatic activity of proteins.

	Laureate	Nobel Prize Year	Field	Work Cited	NIH Support Awarding Unit	Work Supported
	Earl W. Sutherland, Jr. (U.S.A.)	1971	Physiology or Medicine	Discoveries concerning the mechanisms of action of hormones.	NHLBI NIADDK NIGMS	Studies of the action of sympathomimetic amines; action of chemical agents on smooth muscle; role of cyclic GMP and cyclic AMP.
	Julius Axelrod (U.S.A.) (Shared with B. Katz, United Kingdom, and U. von Euler, Sweden)	1970	Physiology or Medicine	Discoveries concerning transmitter substances in nerve terminals and mechanisms for their storage, release, and deactivation.	Senior Chemist, NHLBI; Chief, Section on Pharmacology, Laboratory of Clinical Science, NIMH; Scientist Emeritus, NIMH	Studies of neurotransmission processes; biochemical mechanisms of drug and hormone action; drug and hormone metabolism; enzymology.
	Ulf von Euler (Sweden) (Shared with J. Axelrod, U.S.A., and B. Katz, United Kingdom)	1970	Physiology or Medicine	Discoveries concerning transmitter substances in nerve terminals and mechanisms for their storage, release, and deactivation.	NINCDS	Catecholamine uptake and release in nerve granules.
	Luis Leloir (Argentina)	1970	Chemistry	Discovery of sugar nucleotides and their function in the biosynthesis of carbohydrates.	NIGMS NIAID	Studies of enzymes and coenzymes acting on hexosephosphates; research on metabolic function.

	Nobel Prize			NIH Support	
Laureate	Year	Field	Work Cited	Awarding Unit	Work Supported
Max Delbrück (U.S.A.) (Shared with A.D. Hershey and S. Luria, U.S.A.)	1969	Physiology or Medicine	Discoveries concerning the reproduction of viruses and the role of the genetic material in bacteria and viruses.	NIGMS	Studies in basic experimental biology.
Alfred D. Hershey (U.S.A.) (Shared with M. Delbrück and S. Luria, U.S.A.)	1969	Physiology or Medicine	Discoveries concerning the reproduction of viruses and the role of the genetic material in bacteria and viruses.	NCI NIGMS NICHD	Studies of growth and inheritance in bacteriophage.
Salvador Luria (U.S.A.) (Shared with M. Delbrück and A.D. Hershey, U.S.A.)	1969	Physiology or Medicine	Discoveries concerning the reproduction of viruses and the role of the genetic material in bacteria and viruses.	NCI NIAID NIGMS	Studies of the growth, structure, and genetic function of viruses; cancer biology; microbiology.
Robert W. Holley (U.S.A.) (Shared with H.G. Khorana and M.W. Nirenberg, U.S.A.)	1968	Physiology or Medicine	Translation of the genetic code and its function in protein synthesis.	NCI NIGMS	Structure and function of transfer RNA's; tumor pathology; chemical carcinogenesis.

	Laureate	Nobel Prize			NIH Support	
		Year	Field	Work Cited	Awarding Unit	Work Supported
	H. Gobind Khorana (U.S.A.) (Shared with R.W. Holley and M.W. Nirenberg, U.S.A.)	1968	Physiology or Medicine	Translation of the genetic code and its function in protein synthesis.	NCI NIAID NIGMS	Studies of nucleotides and their polymers; nucleic acids and the biological code; interactions between phospholipids and proteins in biological membranes.
	Marshall W. Nirenberg (U.S.A.) (Shared with R.W. Holley and H.G. Khorana, U.S.A.)	1968	Physiology or Medicine	Translation of the genetic code and its function in protein synthesis.	Section Head and Chief, Laboratory of Biochemical Genetics, NHLBI	Translation of the genetic code; fundamental studies of the regulatory mechanisms in protein synthesis; application of recombinant DNA techniques to problems of gene expression in cultured cell lines of nerve origin.
	Lars Onsager (U.S.A.)	1968	Chemistry	Discovery of the reciprocal relations which now carry his name and which are fundamental for the thermodynamic study of irreversible processes.	NIGMS	Studies on the thermodynamic properties of electrolytes and their interaction with macromolecules.
	Haldan K. Hartline (U.S.A.) (Shared with G. Wald, U.S.A., and R. Granit, Sweden)	1967	Physiology or Medicine	Discoveries of the basic chemical and physiological processes in vision.	NINCDS NEI	Studies of electrical activity of single receptors in neurons of the eye.

	Laureate	Nobel Prize Year	Field	Work Cited	NIH Support Awarding Unit	Work Supported
	George Wald (U.S.A.) (Shared with H.K. Hartline, U.S.A., and R. Granit, Sweden)	1967	Physiology or Medicine	Discoveries of the basic chemical and physiological processes in vision.	NINCDS NEI	Chemistry and physiology of visual excitation; mechanism of cone and color vision; relation of night blindness to vitamin A deficiency.
	Charles B. Huggins (U.S.A.) (Shared with P. Rous, U.S.A.)	1966	Physiology or Medicine	Discoveries concerning the hormonal treatment of prostatic cancer.	NCI NIADDK NIGMS	Studies in endocrinology and chemotherapy.
	Jacques L. Monod (France) (Shared with F. Jacob and A. Lwoff, France)	1965	Physiology or Medicine	Discoveries of the genetic regulation of enzyme synthesis.	NIAID	Role of messenger RNA in the transfer of genetic information; biochemistry of gene control of protein synthesis; regulation of enzyme activity and biosynthesis.
	Robert B. Woodward (U.S.A.)	1965	Chemistry	Meritorious contributions to the art of organic synthesis.	NHLBI NIADDK NIGMS DRG	Continuing research in the chemistry of natural compounds; nuclear magnetic resonance.

	Laureate	Nobel Prize			NIH Support	
		Year	Field	Work Cited	Awarding Unit	Work Supported
	Konrad Bloch (U.S.A.) (Shared with F. Lynen, Germany)	1964	Physiology or Medicine	Discoveries elucidating the biosynthesis of cholesterol and fatty acids.	NHLBI NIGMS DRG	Studies of the enzymatic synthesis of glutathione; biosynthesis and function of lipids; chemical application of nuclear magnetic resonance; sterol metabolism in insects.
	James D. Watson (U.S.A.) (Shared with F.H.C. Crick and M.H.F. Wilkins, United Kingdom)	1962	Physiology or Medicine	Discovery of the molecular structure of nucleic acids and its significance in the transmission of genetic information.	NCI NIADDK NIAID NIGMS DRR	Studies in biochemistry and molecular biology; structure, physical properties, and role of DNA and RNA; mechanism regulating induction of antibody synthesis; modern approaches to vaccines; tumor viruses.
	John C. Kendrew (United Kingdom) (Shared with M.F. Perutz, United Kingdom)	1962	Chemistry	Discovery of the molecular structure of hemoglobin and myoglobin.	NIADDK	Studies of the structures of biological molecules.
	Peter B. Medawar (United Kingdom) (Shared with F.M. Burnet, Australia)	1960	Physiology or Medicine	Discovery of acquired immune tolerance.	NIAID	Nature of antigens responsible for homograft reaction.

	Laureate	Nobel Prize			NIH Support	
		Year	Field	Work Cited	Awarding Unit	Work Supported
	Arthur Kornberg (U.S.A.) (Shared with S. Ochoa, U.S.A.)	1959	Physiology or Medicine	Discoveries of the mechanisms in the biological synthesis of the nucleic acids DNA and RNA.	NCI NIADDK NIAID NIGMS NIA	Biosynthesis, characterization, and structure of nucleic acids and proteins; mechanism and control of initiation of DNA replication; studies of virus formation; DNA transactions and aging.
	Severo Ochoa (U.S.A.) (Shared with A. Kornberg, U.S.A.)	1959	Physiology or Medicine	Discoveries of the mechanisms in the biological synthesis of the nucleic acids DNA and RNA.	NCI NIADDK NIGMS DRG	Studies of carbon dioxide fixation; enzyme systems in biological oxidation; enzyme studies on nucleic acid synthesis and metabolism; enzymic mechanisms in biosynthesis; structure of informational biopolymers.
	George W. Beadle (U.S.A.) (Shared with J. Lederberg and E.L. Tatum, U.S.A.)	1958	Physiology or Medicine	Discovery that genes act by regulating specific chemical processes.	NHLBI NIGMS	Studies in experimental biology and genetics.
	Joshua Lederberg (U.S.A.) (Shared with G.W. Beadle and E.L. Tatum, U.S.A.)	1958	Physiology or Medicine	Discovery of genetic recombination and organization of the genetic material of bacteria.	NCI NINCDS NIAID NIGMS NICHD DRR	Studies of human and bacterial genetics; molecular neurobiology; studies of kindred patterns in mental retardation; cellular phenotypes and genotypes in antibody synthesis; computer applications in biomedical research.

	Laureate	Nobel Prize Year	Field	Work Cited	NIH Support Awarding Unit	Work Supported
	Edward L. Tatum (U.S.A.) (Shared with G.W. Beadle and J. Lederberg, U.S.A.)	1958	Physiology or Medicine	Discovery that genes act by regulating specific chemical processes.	NCI NIGMS	Studies of nitrogen mustard carcinogenesis; biosynthesis of amino acids in *Neurospora;* biochemical genetics of microorganisms; research on nucleic acid metabolism, cytology, and morphology of *Neurospora.*
	Dickinson W. Richards, Jr. (U.S.A.) (Shared with A. Cournand, U.S.A., and W. Forssmann, Germany)	1956	Physiology or Medicine	Development of catheterization techniques for the study and diagnosis of circulatory disorders.	NCI NHLBI NIADDK NIGMS	Cardiorespiratory studies in chronic diseases; use of cortisone to treat lung diseases; clinical studies with ballisto-cardiograph; comparative studies of cardiac output; cardiopulmonary physiology; Herxheimer reactions in cardiovascular syphilis.
	Vincent du Vigneaud (U.S.A.)	1955	Chemistry	Work with pituitary hormones; first synthesis of a polypeptide hormone.	NCI NHLBI NIGMS DRG	Studies of the pituitary gland; tissue metabolism fundamental to cancer; metabolism of methionine; amino acids, polypeptides, and related compounds.
	Thomas H. Weller (U.S.A.) (Shared with J.F. Enders and F.C. Robbins, U.S.A.)	1954	Physiology or Medicine	Cultivation of poliomyelitis viruses in tissue culture.	NIAID NIGMS	Studies of infectious disease and pathogenic agents.

	Laureate	Nobel Prize			NIH Support	
		Year	Field	Work Cited	Awarding Unit	Work Supported
	Linus C. Pauling (U.S.A.)	1954	Chemistry	Molecular structure studies, especially of the bonding forces in protein molecules.	NCI NHLBI NIAID NIGMS DRG	Research on the chemistry of the blood; studies of the structure of erythrocytes; x-ray structure of protein molecules; oxypolygelatin and other plasma substitutes; molecular chemistry applied to biology and medicine; diet and breast cancer.
	Fritz A. Lipmann (U.S.A.) (Shared with H.A. Krebs, United Kingdom)	1953	Physiology or Medicine	Discovery of coenzyme A and its importance in intermediary metabolism.	NCI NIGMS	Carboxyl group activation as a preliminary event in biosynthetic reactions; enzyme reactions in biosynthetic systems; mechanism of enzymatic group activation with ATP; metabolic regulation of polypeptide biosynthesis.
	Philip S. Hench (U.S.A.) (Shared with E.C. Kendall, U.S.A., and T. Reichstein, Switzerland)	1950	Physiology or Medicine	Discoveries relating to the hormones of the adrenal cortex—their structure and biological effects.	DRG	Research on rheumatic diseases.
	E.O. Lawrence (U.S.A.)	1939	Physics	Invention of the cyclotron.	NCI	Cancer therapy with neutrons.

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